PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 101318-1		Form PCT/ISA/220 where applicable, item 5 below.
International application No.	International filing date (day)moni	thlyear) (Earliest) Priority Date (daylmonthlyear)
PCT/SE 2005/000110	31 January 2005	2 February 2004
Applicant		
ASTRAZENECA AB et al		
applicant according to Article 18. A	copy is being transmitted to the Int	Searching Authority and is transmitted to the emational Bureau.
This international search report cons		
It is also accompanied b	y a copy of each prior art documer	nt cited in this report.
1. Basis of the report		
a. With regard to the language, t in the language in which it wa	he international search was carried s filed, unless otherwise indicated u	out on the basis of the international application uder this item.
	earch was carried out on the basis of thority (Rule 23.1(b)).	of a translation of the international application
b. With regard to any nucle No. I.	otide and/or amino acid sequence di	sclosed in the international application, see Box
2. Ertain claims were foun	d unsearchable (see Box No. II)	
3. Unity of invention is lack	ting (see Box No. III)	
4. With regard to the title,		
· · · · · · · · · · · · · · · · · · ·	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as for	цоws:
NOVEL PIPERIDI	NES AS CHEMOKÍNE MOD	OULATORS (CCR)
5. With regard to the abstract,		· •
1	ubmitted by the applicant.	
the text has been established	e month from the date of mailing o	this Authority as it appears in Box No. IV. The of this international search report, submit
6. With regard to the drawings,		
l	e published with the abstract is Figure	are No
as suggested by the	applicant. Authority, because the applicant fail	ed to suggest a figure.
<u> </u>	Authority, because this figure better	
ļ ,, li	be published with the abstract.	
	-	

International application No.

PCT/SE 2005/000110

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: CO7D 211/52, CO7D 211/14, CO7D 401/12, CO7D 409/12, CO7D 417/12, A61K 31/445, A61K 31/4523, A61P 11/06, 19/02, 31/00 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: CO7D, A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN-CAPLUS, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 0162728 A1 (ASTRAZENECA AB), 30 August 2001 (30.08.2001), claim 1	1-14
		
x	WO 0162729 A1 (ASTRAZENECA AB), 30 August 2001 (30.08.2001), formula I	1-14
A	WO 0220484 A1 (ASTRAZENECA AB), 14 March 2002 (14.03.2002), formula I	1-14
X	WO 03068743 A1 (ASTRAZENECA AB), 21 August 2003 (21.08.2003), formula I	1-14
•		

X	Further documents are listed in the continuation of Box	: C.	X See patent family annex.
* "A" "E" "L"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means	"Y"	later document published after the international filing clate or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve are inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than the priority date claimed	" &"	document member of the same patent family
	e of the actual completion of the international search May 2005	Date	f mailing of the international search report
Sw. Box	ne and mailing address of the ISA/ edish Patent Office x 5055, S-102 42 STOCKHOLM simile No. +46 8 666 02 86	FERN	ANDO FARIETA/EÖ one No. +46 8 782 25 UO

Form PCT/ISA/210 (second sheet) (January 2004)

	PCI/S	E 2005/000110
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant pass	sages Relevant to claim No
A	WO 0230899 A1 (NOVARTIS AG), 18 April 2002 (18.04.2002), claims 1-10	1-14
		
A	WO 03018556 A1 (ASTRAZENECA AB), 6 March 2003 (06.03.2003), claims 1-16	1-14
		
A	WO 9904794 A1 (MERCK & CO., INC.), 4 February 1999 (04.02.1999), formula I	1-14
		ì
A	WO 0058305 A1 (ASTRAZENECA AB), 5 October 2000 (05.10.2000), formula I	1-14
		
A	WO 0031033 A1 (F. HOFFMANN-LA ROCHE AG), 2 June 2000 (02.06.2000), examples 4-5	1-14
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orm PCT/IS	FA/210 (continuation of second sheet) (January 2004)	

International application No. PCT/SE 2005/000110

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reason	ns:
1. Claims Nos.: 14 because they relate to subject matter not required to be searched by this Authority, namely: Claim 14 relates to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic methods /Rule 39.1(iv). Nevertheless, a search has been executed for this claim. The search has been based on the alleged effects of the compounds. 2	e n
Present claims 1-9 relate to compounds defined by reference to a desirable characteristic or property, namely pKa-value (R3). The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds/	
 Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a) 	.
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows:	
	hable
This International Searching Authority found multiple inventions in this international application, as follows: 1. As all required additional search fees were timely paid by the applicant, this international search report covers all search	ł
This International Searching Authority found multiple inventions in this international application, as follows: 1. As all required additional search fees were timely paid by the applicant, this international search report covers all search claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payments.	nent of
This International Searching Authority found multiple inventions in this international application, as follows: 1. As all required additional search fees were timely paid by the applicant, this international search report covers all search claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite paymany additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers.	nent of
This International Searching Authority found multiple inventions in this international application, as follows: 1. As all required additional search fees were timely paid by the applicant, this international search report covers all search claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payre any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report conly those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is	nent of

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

International application No. PCT/SE 2005/000110

Box II.2

In the present case, the claims 1-9 so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Independent of the above reasoning, the claims 1-9 also lacks clarity as R3 is not considered to be clearly defined in claims 1 and 4-8 (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved.

In view of the large number and also the wording "suitable electron withdrawing" of the claims 1-9 presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search on the basis of the claims is impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the examples 1-51.

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